

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/539,966	03/31/2000	Stephen D. Macarthur	07072-101001	2142
45456	7590 07/12/2005		EXAM	INER
RICHARD M. SHARKANSKY PO BOX 557			NGUYEN, MIKE	
MASHPEE, MA 02649		ART UNIT	PAPER NUMBER	
	•		2182	
			DATE MAIL ED. 07/12/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/539,966	MACARTHUR, STEPHEN D.	
Office Action Summary	Examiner	Art Unit	
	Mike Nguyen	2182	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT! - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thin period will apply and will expire SIX (6) MOI statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	25 April 2005.	•	
· — · · — —	This action is non-final.		
3) Since this application is in condition for al	llowance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice un	ider <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-32</u> is/are pending in the applic	ation.		
4a) Of the above claim(s) is/are with	hdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-32</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa			
10) The drawing(s) filed on is/are: a)			
Applicant may not request that any objection t			
Replacement drawing sheet(s) including the o			
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docu	ments have been received.	·	
2. Certified copies of the priority docu		• • • • • • • • • • • • • • • • • • • •	
3. Copies of the certified copies of the		received in this National Stage	
application from the International B			
* See the attached detailed Office action for	a list of the certified copies not	received.	

Paper No(s)/Mail Date 4/25/05 & 1/4/05.
U.S. Patent and Trademark Office

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413)

6) Other: _

Paper No(s)/Mail Date. ___

5) Notice of Informal Patent Application (PTO-152)

Attachment(s)

Application/Control Number: 09/539,966 Page 2

Art Unit: 2182

DETAILED ACTION

Notices & Remarks

1. Applicant's amendment 10/14/2004 in response to Examiner's Office Action has been reviewed. The following rejections now apply.

2. Claims 1-32 are pending for the examination.

Drawings

3. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-32 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-75 of copending Application No. 09/540,828. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to be not grouped "a plurality of first directors" and "a plurality of second directors" into "a plurality of first director boards" and "a plurality of second director boards" in the system interface, or the data storage

Application/Control Number: 09/539,966

Art Unit: 2182

system in order to provide more reliable in transferring data of system interface and to protest against total system failure in the event of a failure in a component or subassembly of the storage system. In addition, it would have been obvious to put "a switch" in either the boards or the message network or both in order to provide same motivation as above.

Page 3

- 6. Claims 1-32 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-16 of copending Application No. 09/540,825. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to put "a pair of message network boards having a switch network" the message network in order to provide more reliable in transferring data of system interface and to protest against total system failure in the event of a failure in a component or subassembly of the storage system.
- 7. Claims 1-32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2, 5-6 and 9-10 of U.S. Patent No. 6,651,130 B1. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to be not grouped "a plurality of first directors" and "a plurality of second directors" into "a plurality of first director boards" and "a plurality of second director boards" in the system interface or the data storage system in order to provide more reliable in transferring data of system interface and to protest against total system failure in the event of a failure in a component or subassembly of the storage system. In addition, it would have been obvious to include "a common bus, such as interconnecting the data pipe, the microprocessor, and the controller" in order to provide same motivation as above.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

Applicant's arguments, see pages 18-27, filed on 04/25/2005, with respect to claims 1-31 8. have been fully considered and are persuasive. The rejection of claims 1-32 has been withdrawn.

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 571 272-4153. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571 272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/539,966

Art Unit: 2182

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Nguyen Patent Examiner Group Art Unit 2182

06/30/2005

KIM HUYNH PRIMARY EXAMINER

7/6/05

Page 5